

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29CFR 1910.1200  
(HCS 2012)

LA LMM-6000SPRAY		GSLA_LMM-6000 Black Aerosol Spray Can	
Product specification	RS_FP_603544	Revision Date	04/20/2018
Version	1.9	Print Date	06/18/2018
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## SECTION 1. IDENTIFICATION

Product name : **LA LMM-6000SPRAY**  
GSLA\_LMM-6000 Black Aerosol Spray Can

Material number : **1130062**

### Manufacturer or supplier's details

Company name of supplier : Ferro Corporation

Address : 6060 Parkland Blvd. Suite 250  
Mayfield Heights OH 44124-4185

Telephone : (216) 875-5600

### Emergency telephone number

In-Country Number : (800)424-9300

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

### Recommended use of the chemical and restrictions on use

Recommended use : Consult the technical guidelines for the use of this  
substance/mixture.

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable aerosols : Category 1

Eye irritation : Category 2A

Carcinogenicity : Category 1A

Specific target organ toxicity  
- single exposure : Category 3 (Respiratory system)

Gases under pressure : Category 1

### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

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	H319	Causes serious eye irritation.
	H280	Contains gas under pressure; may explode if heated.
	H335	May cause respiratory irritation.
	H350	May cause cancer.
Precautionary statements	<b>Prevention:</b>	
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Pressurized container: Do not pierce or burn, even after use.
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P264	Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	<b>Response:</b>	
	P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	<b>Storage:</b>	
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
	<b>Disposal:</b>	
	P501	Dispose of contents/ container to an approved waste disposal plant.

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## Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture
Chemical nature	: inorganic metal-nonmetal compound, organic solvent, extremely flammable liquefied gas, silicatic material, hydrocarbon, aliphatic, inorganic salt

### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	$\geq 30$ - $< 50$
Trade Secret Molybdenum Compound	Not Assigned	$\geq 20$ - $< 30$
butane	106-97-8	$\geq 10$ - $< 20$
isobutane	75-28-5	$\geq 5$ - $< 10$
Trade Secret Silicated compound	Not Assigned	$\geq 5$ - $< 10$
propane	74-98-6	$\geq 5$ - $< 10$
Trade Secret Vanadium Compound	Not Assigned	$\geq 1$ - $< 5$
ethyl acetate	141-78-6	$\geq 1$ - $< 5$
methanol	67-56-1	$\geq 1$ - $< 5$
2-butoxyethanol	111-76-2	$\geq 1$ - $< 5$
quartz	14808-60-7	$\geq 0.1$ - $< 1$
4-methylpentan-2-one	108-10-1	$\geq 0.1$ - $< 1$

## SECTION 4. FIRST AID MEASURES

General advice	: Consult a physician.
If inhaled	: Remove to fresh air. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person.
In case of skin contact	: Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
In case of eye contact	: Rinse immediately with plenty of water and seek medical advice.
If swallowed	: Do NOT induce vomiting. Rinse immediately with plenty of water and seek medical advice.
Most important symptoms and effects, both acute and	: Causes serious eye irritation. May cause respiratory irritation.

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delayed

May cause cancer.

## SECTION 5. FIREFIGHTING MEASURES

- |   |  |
|---|--|
| Specific hazards during firefighting          | : Exposure to decomposition products may be a hazard to health.<br>Do not allow run-off from fire fighting to enter drains or water courses.                                       |
| Further information                           | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>In the event of fire and/or explosion do not breathe fumes. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.   |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation.<br>Follow safe handling advice and personal protective equipment recommendations.  |
| Environmental precautions   | : Do not flush into surface water or sanitary sewer system.<br>Prevent product from entering drains.  |
| Methods and materials for containment and cleaning up               | : Sweep up and shovel into suitable containers for disposal.<br>Clean contaminated floors and objects thoroughly while observing environmental regulations. |

## SECTION 7. HANDLING AND STORAGE

- |   |  |
|---|--|
| Advice on protection against fire and explosion | : Keep away from heat and sources of ignition.   |
| Advice on safe handling                         | : Do not get in eyes or mouth or on skin.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Do not use in areas without adequate ventilation.<br>Keep away from heat and sources of ignition. |
| Conditions for safe storage                     | : Keep in a dry, cool and well-ventilated place.   |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
Trade Secret Molybdenum Compound	Not Assigned	TWA	5 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Respirable fraction)	0.5 mg/m3 (Molybdenum)	ACGIH
		TWA	5 mg/m3 (Molybdenum)	OSHA P0
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
isobutane	75-28-5	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		STEL	1,000 ppm	ACGIH
Trade Secret Silicated compound	Not Assigned	TWA (Respirable fraction)	3 mg/m3	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m3	NIOSH REL
		TWA (respirable dust fraction)	3 mg/m3	OSHA P0
propane	74-98-6	TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0
Trade Secret Vanadium Compound	Not Assigned	C (Dust)	0.05 mg/m3 (Vanadium)	NIOSH REL
		C (Fumes)	0.05 mg/m3 (Vanadium)	NIOSH REL
ethyl acetate	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL

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			1,400 mg/m3	
		TWA	400 ppm 1,400 mg/m3	OSHA Z-1
		TWA	400 ppm 1,400 mg/m3	OSHA P0
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		TWA	200 ppm 260 mg/m3	OSHA P0
		STEL	250 ppm 325 mg/m3	OSHA P0
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
quartz	14808-60-7	TWA (total dust)	30 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
4-methylpentan-2-one	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		TWA	50 ppm 205 mg/m3	NIOSH REL
		ST	75 ppm 300 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	50 ppm 205 mg/m3	OSHA P0
		STEL	75 ppm	OSHA P0

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			300 mg/m3	
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**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g Creatinine	ACGIH BEI
4-methylpentan-2-one	108-10-1	methyl isobutyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	1 mg/l	ACGIH BEI

**Engineering measures** : Apply technical measures to comply with the occupational exposure limits.  
Provide adequate ventilation.

**Personal protective equipment**

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection**  
**Material** : Protective gloves

**Eye protection** : Safety glasses with side-shields  
Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection** : impervious clothing

**Protective measures** : Wear suitable protective equipment.  
Avoid contact with skin.  
When using do not eat, drink or smoke.

**Hygiene measures** : Remove contaminated clothing and protective equipment before entering eating areas.  
Wash hands before breaks and immediately after handling

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the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: aerosol
Colour	: black
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 14 °C
Evaporation rate	: No data available
Burning rate	: No data available
Upper explosion limit	: 19 %(V)
Lower explosion limit	: 1.1 %(V)
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not determined
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: No data available



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Explosive properties : No data available

Oxidizing properties : No data available

Refractive index : No data available

Volatile organic compounds (VOC) content : 72 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reactions : No data available

Conditions to avoid : Extremes of temperature and direct sunlight.

Hazardous decomposition products : Stable under normal conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

inhalation (dust/mist/fume)

inhalation (vapour)

Skin

Eye contact

Ingestion

### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

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Method: Calculation method

**Components:**

***ethanol:***

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

***Trade Secret Molybdenum Compound:***

Acute oral toxicity : LD50 (Rat, male and female): 4,461 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,840 mg/m3  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Target Organs: Mucous membranes  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

***butane:***

Acute inhalation toxicity : LC50 (Rat, male and female): 658 g/m3  
Exposure time: 4 h  
Test atmosphere: gas

***propane:***

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

***Trade Secret Vanadium Compound:***

Acute oral toxicity : LD50 (Rat, male and female): 275.87 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

***ethyl acetate:***

Acute oral toxicity : LD50 Oral (Rat): 6,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 22.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

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Acute dermal toxicity : LD50 Dermal (Rabbit): > 18,000 mg/kg

***methanol:***

Acute oral toxicity : LD50 Oral (Rat): 6,200 mg/kg

***2-butoxyethanol:***

Acute oral toxicity : LD50 Oral (Rat, male and female): 1,200 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

***quartz:***

Acute oral toxicity : LD50 Oral (Rat): 500 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

***4-methylpentan-2-one:***

Acute oral toxicity : LD50 Oral (Rat): 2,080 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,000 mg/kg

## Skin corrosion/irritation

Not classified based on available information.

### Components:

***ethanol:***

Species: Rabbit  
Exposure time: 24 h  
Method: OECD Test Guideline 404  
Result: No skin irritation

***Trade Secret Molybdenum Compound:***

Species: Rabbit  
Exposure time: 4 h  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

***2-butoxyethanol:***

Species: Rabbit  
Exposure time: 72 h  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes

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## Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### ***ethanol:***

Species: Rabbit

Result: Moderate eye irritation

Method: OECD Test Guideline 405

#### ***Trade Secret Molybdenum Compound:***

Species: Rabbit

Result: Irritating to eyes.

Assessment: Irritating to eyes.

#### ***Trade Secret Vanadium Compound:***

Species: Rabbit

Result: Irritating to eyes.

Exposure time: 1 h

Method: OECD Test Guideline 405

GLP: yes

#### ***ethyl acetate:***

Species: Rabbit

Result: No eye irritation

#### ***2-butoxyethanol:***

Result: Eye irritation

## Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

May cause cancer.

### **IARC**

Group 1: Carcinogenic to humans

quartz

14808-60-7

Group 2B: Possibly carcinogenic to humans

4-methylpentan-2-one

108-10-1

### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **NTP**

Known to be human carcinogen

quartz

14808-60-7

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## Reproductive toxicity

Not classified based on available information.

## STOT Specific Target Organ Toxicity - single exposure

May cause respiratory irritation.

### Components:

#### **Trade Secret Molybdenum Compound:**

Assessment: May cause respiratory irritation.

#### **Trade Secret Vanadium Compound:**

Assessment: May cause respiratory irritation.

## STOT Specific Target Organ Toxicity - repeated exposure

Not classified based on available information.

## Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### Components:

##### **ethanol:**

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 9,268 mg/l  
Exposure time: 48 h

##### **Trade Secret Molybdenum Compound:**

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 100 mg/l  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility

(Pimephales promelas (fathead minnow)): 370 mg/l  
Exposure time: 96 h  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

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(Daphnia magna (Water flea)): 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

**Trade Secret Vanadium Compound:**

Toxicity to fish : LC50 (Marine species): 27.8 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**ethyl acetate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (algae): 3,300 mg/l  
Exposure time: 48 h

**methanol:**

Toxicity to fish : LC50 (Fish): 28,200 mg/l  
Exposure time: 96 h

**2-butoxyethanol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,490 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,800 mg/l  
Exposure time: 48 h

**4-methylpentan-2-one:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 496 - 514 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 170 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 400 mg/l  
Exposure time: 96 h

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## Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

### Components:

#### ***ethanol:***

Biodegradability : Remarks: No data available

#### ***Trade Secret Molybdenum Compound:***

Biodegradability : Remarks: No data available

#### ***butane:***

Biodegradability : Remarks: No data available

#### ***Trade Secret Silicated compound:***

Biodegradability : Remarks: No data available

#### ***propane:***

Biodegradability : Remarks: No data available

#### ***Trade Secret Vanadium Compound:***

Biodegradability : Remarks: No data available

#### ***ethyl acetate:***

Biodegradability : Remarks: No data available

#### ***methanol:***

Biodegradability : Remarks: No data available

#### ***2-butoxyethanol:***

Biodegradability : Remarks: No data available

#### ***quartz:***

Biodegradability : Remarks: No data available

## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### ***ethanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water

: log Pow: -0.349 (24 °C)

#### ***Trade Secret Molybdenum Compound:***

Bioaccumulation : Remarks: No data available

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According to OSHA Hazard Communication Standard 29CFR 1910.1200  
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## ***butane:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: 2.745

## ***Trade Secret Silicated compound:***

Bioaccumulation : Remarks: No data available

## ***propane:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : Remarks: No data available

## ***Trade Secret Vanadium Compound:***

Bioaccumulation : Remarks: No data available

## ***ethyl acetate:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: 0.73 (20 °C)

## ***methanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: -0.77

## ***2-butoxyethanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-  
octanol/water : log Pow: 0.77 (20 °C)  
pH: 7

## ***quartz:***

Bioaccumulation : Remarks: No data available

## ***4-methylpentan-2-one:***

Partition coefficient: n-  
octanol/water : Pow: 1.19

## **Mobility in soil**

### **Product:**

Distribution among  
environmental compartments : Remarks: No data available

### **Components:**



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***ethanol:***

Distribution among : Remarks: No data available  
environmental compartments

***Trade Secret Molybdenum Compound:***

Distribution among : Remarks: No data available  
environmental compartments

***butane:***

Distribution among : Remarks: No data available  
environmental compartments

***Trade Secret Silicated compound:***

Distribution among : Remarks: No data available  
environmental compartments

***propane:***

Distribution among : Remarks: No data available  
environmental compartments

***Trade Secret Vanadium Compound:***

Distribution among : Remarks: No data available  
environmental compartments

***ethyl acetate:***

Distribution among : Remarks: No data available  
environmental compartments

***methanol:***

Distribution among : Remarks: No data available  
environmental compartments

***2-butoxyethanol:***

Distribution among : Remarks: No data available  
environmental compartments

***quartz:***

Distribution among : Remarks: No data available  
environmental compartments

## Other adverse effects

**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

## SECTION 14. TRANSPORT INFORMATION

### IATA-DGR

UN number : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

### IMDG-Code

UN number : UN 1950  
Proper shipping name : AEROSOLS  
  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

### 49 CFR

UN/ID/NA number : UN 1950  
Proper shipping name : AEROSOLS  
  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
ERG Code : 126  
Marine pollutant : no

## SECTION 15. REGULATORY INFORMATION

TSCA list : TSCA\_12b - Not relevant

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**TSCA list** : TSCA 5a - Not relevant

## EPCRA - Emergency Planning and Community Right-to-Know Act

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Trade Secret Vanadium Compound		1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard  
Chronic Health Hazard  
Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This product contains components that are reportable under the regulation.

Molybdenum trioxide

Vanadium compounds

Methanol

Certain Glycol Ethers

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

This product contains components that are reportable under the regulation.

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### Massachusetts Right To Know

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This product contains components that are reportable under the regulation.

## Pennsylvania Right To Know

This product contains components that are reportable under the regulation.

## New Jersey Right To Know

This product contains components that are reportable under the regulation.

## California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.  
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## The components of this product are reported in the following inventories:

EINECS (European Union)	: On the inventory, or in compliance with the inventory
SWISS (Switzerland)	: On the inventory, or in compliance with the inventory
TSCA (United States)	: On TSCA Inventory
DSL/NDL (Canada)	: All components of this product are on the Canadian DSL.
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZioC (New Zealand)	: Not in compliance with the inventory
ENCS (Japan)	: Not in compliance with the inventory
ISHL (Japan)	: Not in compliance with the inventory
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: On the inventory, or in compliance with the inventory
TCSI (Taiwan)	: On the inventory, or in compliance with the inventory
CICR (Turkey)	: Not in compliance with the inventory
INSQ (Mexico)	: Not in compliance with the inventory

## SECTION 16. OTHER INFORMATION

Revision Date : 04/20/2018

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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